AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. – 16. (Cancelled)

17. (Currently Amended) A bonded magnet comprising:

manufactured by mixing a magnetic powder having an average particle size in the range of 1 to 50 μ m; and

with a binding resin,

wherein and then subjecting the mixture to injection molding or extrusion molding, in which the magnetic powder is composed of an R-TM-B based alloy having at least one element selected from Ti, Cr, Nb, V, Mo, Hf, W, Mn, Zr and Dy (where R is at least one kind of rare-earth element selected from the group consisting of Nd and Pr, a ratio of Pr with respect to a total mass of R is in the range of 20% – 60% excepting Dy, and TM is a transition metal mainly containing Fe),

the bonded magnet being characterized in that when a density of the bonded magnet after either injection molding or extrusion molding is ρ [Mg/m³],

a maximum magnetic energy product (BH)_{max}[kJ/m³] of the bonded magnet at room temperature satisfies a relationship represented by a formula of (BH)_{max}/ ρ^2 [x10⁻⁹J·m³/g²] \geq 2.10, and

an intrinsic coercive force H_{CJ} of the bonded magnet at room temperature is in a range of $400\,430-760\,\text{kA/m}$.

18. (Original) The bonded magnet as claimed in claim 17, wherein a remanent magnetic flux density Br[T] of the bonded magnet at room temperature satisfies a relationship represented by a formula of Br/ ρ [x10⁻⁶T·m³/g] \geq 0.125.

19. (Currently Amended) A bonded magnet comprising:

manufactured by mixing a magnetic powder having an average particle size in the range of 1 to 50 μ m; and

with a binding resin,

and then subjecting the mixture to injection molding or extrusion molding, wherein the magnetic powder <u>isbeing</u> composed of an R-TM-B based alloy having at least one element selected from Ti, Cr, Nb, V, Mo, Hf, W, Mn, Zr and Dy (where R is at least one <u>kind of rare-earth element selected from the group consisting of Nd and Pr, a ratio of Pr with respect to a total mass of R is in the range of 20% - 60% excepting Dy, and TM is a transition metal mainly containing Fe),</u>

the bonded magnet being characterized in that when a density of the bonded magnet after injection molding or extrusion molding is ρ [Mg/m³],

a remanent magnetic flux density Br[T] of the bonded magnet at room temperature satisfies a relationship represented by a formula of Br/ ρ [x10⁻⁶T·m³/g] \geq 0.125, and

an intrinsic coercive force H_{CJ} of the bonded magnet at room temperature is in a range of $400\ 430\ -\ 760\ \text{kA/m}$.

- 20. (Currently Amended) The bonded magnet as claimed in claim 17, wherein the magnetic powder is composed of an alloy composition represented by $R_x(Fe_1.a_0Co_a)_{100-x-y-z}B_yM_z$ (where R is at least one kind of rare-earth element excepting Dy selected from the group consisting of Nd and Pr, a ratio of Pr with respect to a total mass of R is in the range of 20% 60%, M is at least one kind of element selected from Ti, Cr, Nb, V, Mo, Hf, W, Mn, Zr and Dy, x is 7.1 9.9at%, y is 4.6 8.0at%, z is 0.1 3.0at%, and a is 0 0.30), and the magnetic powder is constituted from a composite structure having a soft magnetic phase and a hard magnetic phase.
- 21. (Original) The bonded magnet as claimed in claim 17, wherein a maximum magnetic energy product (BH)_{max}[kJ/m³] is equal to or greater than 40kJ/m³.
- 22. (Original) The bonded magnet as claimed in claim 16, wherein an absolute value of an irreversible flux loss (initial flux loss) is equal to or less than 6.2%.

23. - 33. (Cancelled)

34. (Currently Amended) The bonded magnet as claimed in claim 19, wherein the magnetic powder is composed of an alloy composition represented by $R_x(Fe_{1-a}Co_a)_{100-x-y-z}B_yM_z$ (where R is at least one kind of rare-earth element excepting Dy selected from the group consisting of Nd and Pr, a ratio of Pr with respect to a total mass of R is in the range of 20% - 60%, M is at least one kind of element selected from Ti, Cr, Nb, V, Mo, Hf, W, Mn, Zr and Dy, x is 7.1 - 9.9at%, y is 4.6 - 8.0at%, z is 0.1 - 9.9at%, y is 4.6 - 8.0at%, z is 0.1 - 9.9at%, v is 0.1 - 9.9at%.

- 3.0at%, and a is 0-0.30), and the magnetic powder is constituted from a composite structure having a soft magnetic phase and a hard magnetic phase.
- 35. (Original) The bonded magnet as claimed in claim 19, wherein a maximum magnetic energy product (BH)_{max}[kJ/m³] is equal to or greater than 40kJ/m³.
- 36. (Original) The bonded magnet as claimed in claim 17, wherein an absolute value of an irreversible flux loss (initial flux loss) is equal to or less than 6.2%.